In the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A leakage detection apparatus for a multi-channel inkjet cartridge comprising:

a plurality of electrodes disposed in channels of the inkjet cartridge on a one-to-one corresponding basis, such that only one ~~each of which~~ of the electrodes is disposed in ~~each~~ a given one of the multi-channels of the inkjet cartridge, and contacts a reagent in the corresponding channel; and

a controller, coupled to the electrodes, to detect leakage between channels, comprising a voltage supply device for providing voltage to one of the electrodes at a time.

2. (Cancelled)

3. (Currently Amended) The leakage detection apparatus as claimed in claim [[2]]1, wherein the controller includes a detection circuit for coupling any two of the electrodes, and the voltage supply device is coupled to the electrodes via the detection circuit.

4. (Original) The leakage detection apparatus as claimed in claim 1, wherein the controller includes a display to display leakage detection results.

5. (Currently Amended) An inkjet dispensing apparatus comprising:

a cartridge including a plurality of channels, wherein reagents are received in the channels;

a chip, disposed on the cartridge, including a plurality of first through holes communicating with one of the channels respectively;

a plurality of electrodes disposed in channels of the inkjet cartridge on a one-to-one corresponding basis, such that only one ~~each of which~~ of the electrodes is disposed in ~~each~~ a given one of the multi-channels of the inkjet cartridge, and contacts a reagent in the corresponding channel; and

a controller, coupled to the electrodes, to detect leakage between channels, comprising a voltage supply device for providing voltage to one of the electrodes at a time.

6. (Original) The inkjet dispensing apparatus as claimed in claim 5, wherein the chip is made of glass.

7. (Original) The inkjet dispensing apparatus as claimed in claim 5, wherein the chip is covered by an electric-isolating layer.

8. (Original) The inkjet dispensing apparatus as claimed in claim 5, further comprising:

a barrier layer, disposed on the chip, including a plurality of second through holes communicating with the first through holes respectively; and

a nozzle plate, disposed on the barrier layer, including a plurality of orifices communicating with the second through holes respectively.

9. (Original) The inkjet dispensing apparatus as claimed in claim 8, wherein the nozzle plate is made of polyimide.

10. (Cancelled)

11. (Currently Amended) The inkjet dispensing apparatus as claimed in claim ~~10~~5, wherein the controller includes a detection circuit for coupling any two of the electrodes, and the voltage supply device is coupled to the electrodes via the detection circuit.

12. (Original) The inkjet dispensing apparatus as claimed in claim 5, wherein the controller includes a display to display leakage detection results.

13-17. (Canceled)